

TRANSPORT POLICY & APPLIED RESEARCH GALILEO 2007-2008 CALL

CALL FP7-GALILEO-2007-GSA-1 Grants (FP7 Instruments) - Open: 15 November 2007–29 February 2008 Budget: € 17.5 million
Contracts (Calls for Tender) - Publication: staggered until 28 April 2008 & published in OJEU Budget: € 7.5 million. See: [GSA: Procurement](#)

GALILEO

GALILEO activities are managed by the GNSS Supervisory Authority (GSA) and implemented using FP7 instruments (Collaborative Projects & Coordination & Support Actions) and Calls for Tender (for studies). Although the 2007 Transport workprogramme outlines the general areas of research – it does not specify research topics. Detailed specifications are available on the [CORDIS FP7 Cooperation Call for Proposals](#). A summary of research areas is outlined below. The focus is on actions which exploit EGNOS. In all cases close coordination with research topics in the Transport Priority's sub-themes Aeronautics and Surface Transport will be necessary to avoid duplications.

2007-2008 Research Topics

Below is an indicative summary of research topics with transport policy/applied content in GALILEO and the Space Thematic Priority which are/will be the subject of Calls in 2007. **Proposers should not rely on this when preparing a proposal - but refer to the relevant Workprogramme and Call Fiche** ([CORDIS FP7 Cooperation Call for Proposals](#)) for full information about the topic's specification, funding instruments, budget, and Call opening and closing dates. Research topics are organised under the following headings:

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INDICATIVE SUMMARY OF RESEARCH TOPICS

Instruments Key: CP = Collaborative Project (RTD)
CSA = Coordinating Support Action

GRANTS

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument	Number of Projects	Indicative Budget per Project
Applications & Services					
GALILEO-2007-GSA-1	GALILEO-2007-1.1-01 Exploiting Full Potential Mass Market Applications	Innovative GNSS-based road applications To develop one or more innovative market-ready GNSS road applications in: <ul style="list-style-type: none"> ➤ road pricing for all private & commercial vehicles ➤ consumer market of private & commercial users. This excludes applications dedicated to specific groups of vehicles eg fleet management & specific vehicle segments eg truck tolling. These user groups may be included in the project however for trails or as targets for early adopters of the applications. 	CP	2	€1.4M
GALILEO-2007-GSA-1	GALILEO-2007-1.1-02 Exploiting Full Potential Mass Market Applications	Innovative GNSS-based mobile Location Based Service (LBS) applications To develop one or more innovative market-ready GNSS LBS applications in: <ul style="list-style-type: none"> ➤ health & safety (eg patient localisation, emergency distress call, support for the elderly & disabled, family locator, person tracking etc) ➤ multimodal personal navigation that can run on GNSS-enabled smartphones, PDAs &/or PNDs so users can determine the fastest route using public transport & other means ➤ consumer specific applications appealing to segments of the population including GNSS-based solutions for applications with regulatory aspects eg emergency calls for vehicles (eCall) & pedestrians (E112) 	CP	2	€1.5M
GALILEO-2007-GSA-1	GALILEO-2007-1.4-01 Exploiting Full Potential Safety of Life Applications	Accelerating EGNOS adoption in aviation To assess which applications can accelerate adoption of EGNOS in aviation – in order to spread & speed up its operational benefits focusing on innovative applications in: <ul style="list-style-type: none"> ➤ regional airlines, general aviation, helicopters ➤ airport ground handling & surface movement 	CP	2	€1.0M

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Applications & Services - continued					
GALILEO-2007-GSA-1	GALILEO-2007-1.7-01 Exploiting Full Potential New & Innovative Applications & Services	<p>Open call for focused innovative projects in mass-market GNSS applications NB: This topic is only open to SMEs, universities & research institutes</p> <p>To increase the adoption of GNSS & stimulate innovation & networking of SMEs by developing innovative applications focusing on mass markets (the general population or large segments of populations). Indicative applications include:</p> <ul style="list-style-type: none"> ➤ road applications with high public utility (eg road pricing, tolling, congestion management & pollution control) ➤ road value added services (eg pay per use insurance (PPU), traffic information, weather, entertainment etc) ➤ health & safety applications (eg patient localisation, emergency distress call, support for the elderly & disabled, family locator, person tracking etc) ➤ GNSS-based mobile LBS applications with mass market potential (eg mobile location-based advertising, tourism & travel information, multimodal personal navigation, location-based gaming etc) ➤ Logistics tracking (vehicles, containers, livestock, dangerous goods), multimodal transport, vehicle telematics (eg remote vehicle diagnostics, fleet management) ➤ Outdoor GNSS applications catering for various segments of the population (eg runners, hikers, climbers, fishermen, hunters, golfers etc) 	CP	8	€0.3M
Receivers					
GALILEO-2007-GSA-1	GALILEO-2007-3.1-01 Adapting Receivers & Upgrading Technology Receivers	<p>Mass market receiver</p> <p>Objectives are to:</p> <ul style="list-style-type: none"> ➤ R&D activities for core technologies related to interoperable GALILEO/GPS/EGNOS mass market receivers addressing specific mass market segments ➤ design, develop, implement & test interoperable GALILEO/GPS/EGNOS prototype receivers ➤ R&D activities generating European competence in GNSS receiver technologies & leading to cooperation between industry, research organisations & universities ➤ introduce at an early stage GALILEO technologies, particularly in mass market receivers 	CP	2	€2.0M

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Infrastructure Evolution					
GALILEO-2007-GSA-1	GALILEO-2007-4.1-01 Supporting Infrastructure Evolution User Need & Mission Evolution	GSA Support To assist the GSA in the coordination & appraisal of projects launched in the First Call (2007-2008) : <ul style="list-style-type: none"> ➤ management (contractual, internal communication, tracking project status, review/verification of deliverables, organising progress meetings, coordination, identify problem areas/critical points & need for interfaces with external bodies ➤ support for management of projects (analysis of documentation for review, participation in meetings/review, scientific & technical guidance, synthesis of knowledge generated, coordination & dissemination, recommendations on exploitation of results & roadmap consolidating technology & level of market readiness of applications, appraisal of results) ➤ Advisory Groups of independent high level experts on specific topics & ad hoc support ➤ Support to enabling activities (technology transfer, national/regional/local initiatives, market monitoring). 	CP & CSA to support research	1	€1.5M
GALILEO-2007-GSA-1	GALILEO-2007-4.3-01 Supporting Infrastructure Evolution International Cooperation & Awareness	International To foster cooperation with international partners in projects addressing seven topics – four defined topics ranging from definition of suitable regional plans to the development of prototype of MEOSAR beacons & three open topics for innovative ideas from third countries in the fields of applications, technology and mission. The results of projects shall provide guidelines & recommendations to define future activities/projects to be undertaken in regions of interest to increase participation of the regions in GALILEO. Activities relate to: <ul style="list-style-type: none"> ➤ management (contractual, internal communication, tracking project status, review/verification of deliverables, organising progress meetings, coordination, identify problem areas/critical points & need for interfaces with external bodies ➤ background description (detailing project genesis, background & expectations) & justifying selection of thematic subject & international partner(s) ➤ development (undertake work specified) ➤ Conclusion (synthesis of results, future action plan & follow-up) 	CP	1 to cover funding of 3 to 5 projects	€2.5M includes €0.5M per funded project

Contracts

The statement of works for each topic will be published as the Call for Tenders are published on the [GSA: Procurement](#) page of its website. The presentations at the Information Day on 15 November 2007 provide summary indicative information (download from Session 2 on [GSA: DAY 2: Thursday, 15 November 2007](#)).

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument	Number of Projects	Indicative Budget per Project
		Tools			
Call for Tender	GALILEO-2007-2.1-01 Tools GSA/OP/02/08 Closing Date: 9 April 08	Service consolidation Support focusing on: ➤ GALILEO integrity concept for safety of life service (identify requirements evolution, review current integrity baseline concept, make proposals for new global integrity concepts) ➤ Search & rescue (consolidate SAR service operational concept & service performance, establish a plan for service introduction)	Support 12 months	1	€1.0M 50% integrity 50% SAR
Call for Tender	GALILEO-2007-2.1-02 Tools GSA/OP/08/07 Closing Date: 7 April 08	Test bed & simulators/GNSS simulation & testing infrastructure To define the roadmap for the coordination & harmonisation of the European GNSS simulation & testing infrastructure: ➤ Investigate current & future user needs for development & testing of GNSS related equipment & user applications ➤ Analysis of current & projected simulation & testing capabilities being built in Europe ➤ Recommendations for harmonised GNSS simulation & testing infrastructure ➤ Development of a roadmap for implementation of GSTI	Support 12 months	1	€0.5M
Standardisation & Certification					
Call for Tender	GALILEO-2007-2.2-01 Standardisation GSA/OP/07/07 Closing Date: 4 April 08	Standardisation & GALILEO & EGNOS Reference Documentation/high level documents management Support for standardisation: ➤ Standardise GALILEO for different user communities (aviation, maritime, mobile phones) & for road rail and other areas to identify other applications, assess the need for standards, prepare standardisation plan) ➤ Support the development of GALILEO & EGNOS reference documentation ➤ Organise user consultation	Support 24 months	1	€1.8M 80% Standards 20% Document

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Standardisation & Certification - continued					
Call for Tender	GALILEO-2007-2.2-01 Standardisation & Certification GSA/OP/01/08 Closing Date: 27 March 08	Security related standardisation & certification/Programme for Governmental receivers specification & standardisation Objectives of the study are: ➤ Implementation of the standardisation, security & safety certification, security accreditation requirements & roadmap for PRS receivers ➤ Definition of functional analysis of security Modules of the PRS receivers & relevant security architecture & protection profiles ➤ Assessment of the performance of PRS receivers & preparation for the development of PRS receiver prototypes ➤ Guidelines & recommendations for industry & Member States for the development of PRS receivers	Support	1	€2.5M
Infrastructure Evolution					
Call for Tender	GALILEO-2007-4.1-02 User Needs & Mission Evolution GSA/OP/03/08 Closing Date: 11 April 08	GNSS Evolution/GALILEO mission evolution To develop a better understanding of the GNSS environment & potential evolution: ➤ GALILEO mission evolution drivers - identify & analyse existing studies related to GNSS user needs & impacts of cost/performance ➤ Assess evolution of multi-system GNSS environment (mission, system performance characteristics etc), evolution of technology & analysis of mission drivers ➤ development of four most likely GALILEO mission evolution scenarios & analysis of their potential impact on the GALILEO system ➤ analysis of four most likely mission evolution scenarios to identify potential risks, opportunities & elements of strategic importance	Support 12 months	1	€0.5M
Call for Tender	GALILEO-2007-4.1-03 User Needs & Mission Evolution GSA/OP/06/07 Closing Date: 13 March 2008	Evolution of GALILEO Code & Navigation Message/Analysis & proposals on GALILEO signals To develop a better understanding of the GNSS environment & signals evolution: ➤ analysis of spreading codes ➤ analysis of navigation message ➤ analysis of next generation signals ➤ analysis of commercial service signal	Support 18 months	1	€0.5M

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument	Number of Projects	Indicative Budget per Project
Infrastructure Evolution - continued					
Call for Tender	GSA/OP/04/08 Closing Date: 15 April 08	<p>Support to GALILEO frequency regulatory aspects and coordination activities</p> <p>To support the GSA on all frequency International Telecommunication Union (ITU) regulatory actions regarding GALILEO and EGNOS and on the analysis of the compatibility/interoperability with other GNSS systems:</p> <ul style="list-style-type: none"> ➤ frequency regulation & standards ➤ support preparations for World Radiocommunications Conference (WRC) ➤ non-WRC issues (ITU studies on technical recommendations & support for coordination of European ITU) ➤ analysis of frequency filings received by ITU; draft response to ITU ➤ support GSA efforts to revise emission levels defined by ETSI European Norms ➤ signals analysis ➤ analysis of compatibility of GALILEO & EGNOS signals in presence of other RNSS systems & development & validation of scenarios, simulation tools & compatibility criteria ➤ analysis of components & characteristics of other systems & their interoperability with GALILEO 	24 months	1	€0.7M